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|       |                |            |          | Filing Date            | August 15, 2003   |  |  |
| 51A   | IEMENI         | BT A       | PPLICANT | First Named Inventor   | Masakazu Kawai    |  |  |
|       |                |            |          | Art Unit               | 3736              |  |  |
|       |                |            |          | Examiner Name          | Not Yet Knonw     |  |  |
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| U.S. PATENT DOCUMENTS |              |  |                    |  |  |  |
|-----------------------|--------------|--|--------------------|--|--|--|
|                       |              | Document No.                               |                    |  |  |  |
| Examiner<br>Initials* | Cite<br>No.1 | Number - Kind Code <sup>2</sup> (if known) | Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |  |  |
| 14-                   | Α            | US-5,362,288                               | 11-08-1994         | Razon  |  |  |
|                       | В            | US-5,432,417                               | 07-11-1995         | Takenaka et al.                                    |  |  |
|                       | С            | US-5,808,433                               | 09-15-1998         | Tagami et al.                                      |  |  |
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| FOREIGN PATENT DOCUMENTS |              |   |                                |  |    |  |
|--------------------------|--------------|---|--------------------------------|--|----|--|
| Foreign Patent Document  |              |   |                                |  |    |  |
| Examiner<br>Initials*    | Cite<br>No.1 | Country Code <sup>3</sup> –<br>Number <sup>4</sup><br>Kind Code <sup>3</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | τ° |  |
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|                                 | OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS |  |  |  |  |  |
|---------------------------------|--|--|--|--|--|--|
| Examiner Cite<br>Initials* No.1 |  |  |  |  |  |  |
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|-------|----------------|-------------|---------|------------------------|-----------------|--|--|
| INEC  | DALATIO        | N DISC      | LOSURE  | Application No.        | 10/642,477      |  |  |
|       |                |             |         | Filing Dat             | August 15, 2003 |  |  |
| SIA   | I CINIEM I     | DI AP       | PLICANT | First Nam d Inv nt r   | Masakazu Kawai  |  |  |
|       |                | •           |         | Art Unit               | Not Yet Known   |  |  |
|       |                |             |         | Examiner Name          | Not Yet Known   |  |  |
| Sheet | 1              | of          | 1       | Attorney Docket Number | 20911-08172     |  |  |

|                    |              |  | U.S. PATE          | NT DOCUMENTS                                       |
|--------------------|--------------|--|--------------------|--|
|                    |              | Document No.                               |                    |  |
| Examiner Initials* | Cite<br>No.1 | Number – Kind Code <sup>2</sup> (if known) | Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |
| -14                | Α            | US-6,152,890                               | 11-28-2000         | Kupfer et al.                                      |
| J                  |              | •  |                    |  |
|                    |              |  |                    |  |
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|                       | FOREIGN PATENT DOCUMENTS |   |                                |  |     |  |  |
|-----------------------|--------------------------|---|--------------------------------|--|-----|--|--|
|                       |                          | Foreign Patent Document   |                                |  |     |  |  |
| Examiner<br>Initials* | Cite<br>No.1             | Country Code <sup>3</sup> –<br>Number <sup>4</sup><br>Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | . 1 |  |  |
| 7#                    | В                        | JP 2000-249570  | 14.09.2000                     | Nippon Telegr & Teleph Corp.                       |     |  |  |
| ノ                     |                          |   |                                |  |     |  |  |
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|------------------------|-------------------|--|
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| U.S. PATENT DOCUMENTS |              |  |                    |  |  |  |
|-----------------------|--------------|--|--------------------|--|--|--|
| •                     |              | Document No.                               |                    |  |  |  |
| Examiner<br>Initials* | Cite<br>No.1 | Number – Kind Code <sup>2</sup> (if known) | Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document |  |  |
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| FOREIGN PATENT DOCUMENTS |              |   |                                |  |    |  |  |
|--------------------------|--------------|---|--------------------------------|--|----|--|--|
|                          |              | Foreign Patent Document   |                                |  |    |  |  |
| Examiner<br>Initials*    | Cite<br>No.1 | Country Code <sup>3</sup> –<br>Number <sup>4</sup><br>Kind Code <sup>5</sup> (if known) | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | To |  |  |
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| Examiner<br>Initials* | Cite<br>No.1  | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published | T <sup>6</sup> |
|-----------------------|---------------|--|----------------|
| 74                    | C1            | Kato, H. and Hirata, T., "The Concept of a Walking Assistance Suit", The Japanese Society of Mechanical Engineers, August 2001.  |                |
| 71                    | C2            | R. Wells, M. Morrisey, and R. Hughson, "Internal and Physiological Responses During Concentric and Eccentric Cycle Ergometry", Eur. J. Appl. Physiol, 55: 291-301, 1986  |                |
| TH                    | C3            | Gagnon, M. and Smith, G., "Muscular Mechanical Energy Expenditure as a Process for Detecting Potential Risks in Manual Materials Handling", J. Biomechanics, Vol. 24, No. 3/4; pp. 191-203, November 1991  |                |
| #                     | C4            | Winter, D.A., "Biomechanics and Motor Control of Human Movement", 2 <sup>nd</sup> Edition,<br>John Wiley & Sons, Inc., pp. 51-74   |                |
| jH                    | C5            | Gagnon D., and Gagnon, M., "The Influence of Dynamic Factors on Triaxial Net Muscular Moments at the L5/S1 Joint During Asymmetrical Lifting and Lowering", Journa of Biomechanics, Vol. 25, pp. 891-901, 1992   |                |
|                       | <del>C6</del> | Hsiang, S.H., and McGorry, R.W., "Three Different Lifting Strategies for Controlling the Motion Patterns of the External Load", Ergonomics, Vol. 40, pp. 928-939, 1997   | illegil        |

|  | Examiner<br>Signature | JU 4 | - Date<br>Considered | 1/5/05 |
|--|-----------------------|------|----------------------|--------|
|--|-----------------------|------|----------------------|--------|

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